

FIG. 1

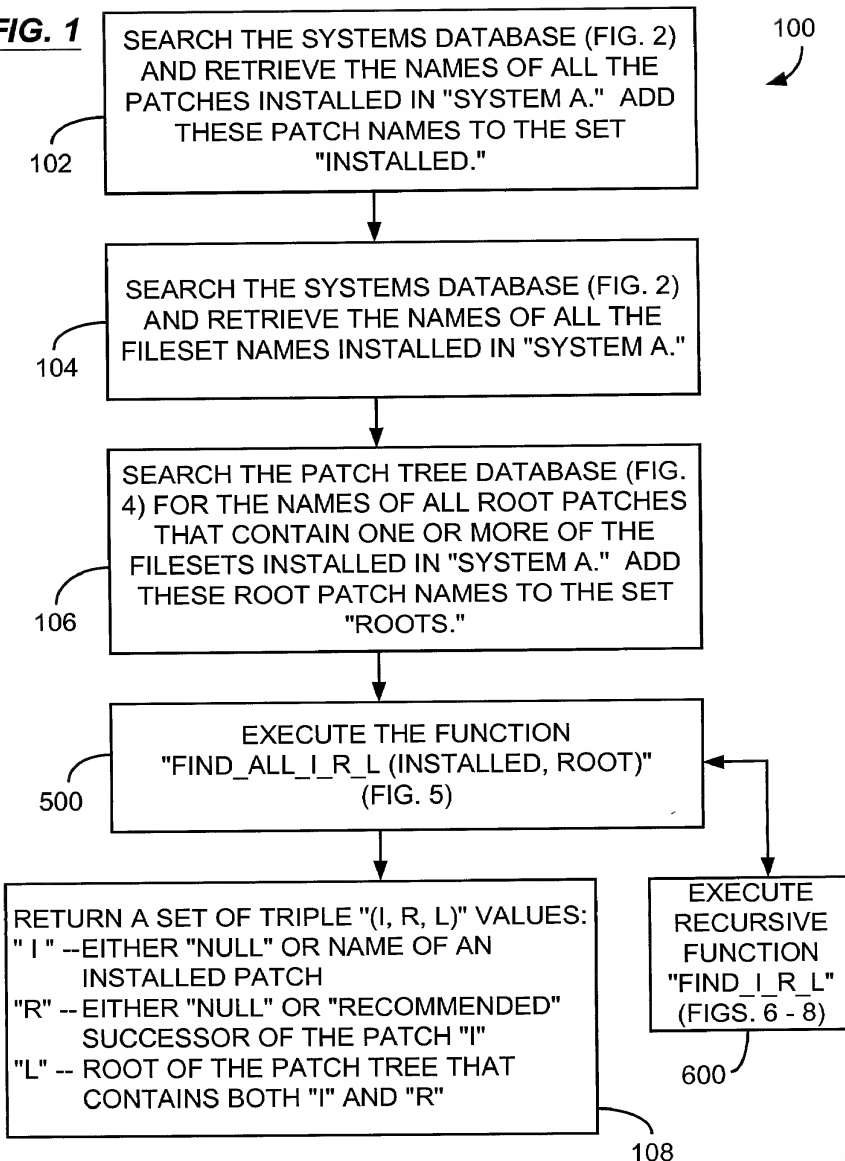


FIG. 2

SYSTEMS DATABASE

200

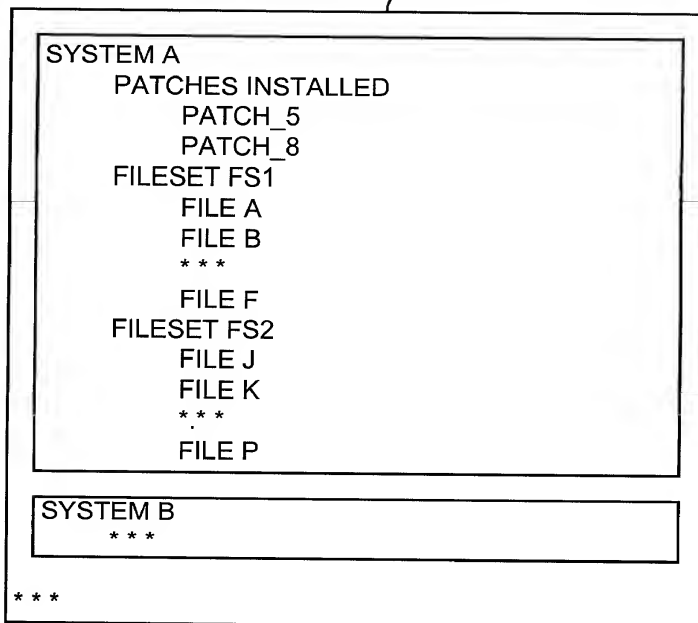


FIG. 3

PATCHES DATABASE

300

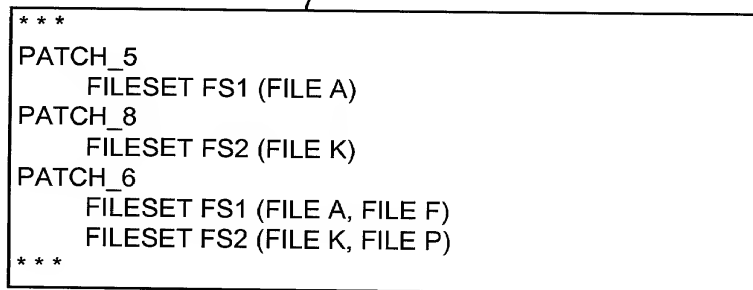


FIG. 4

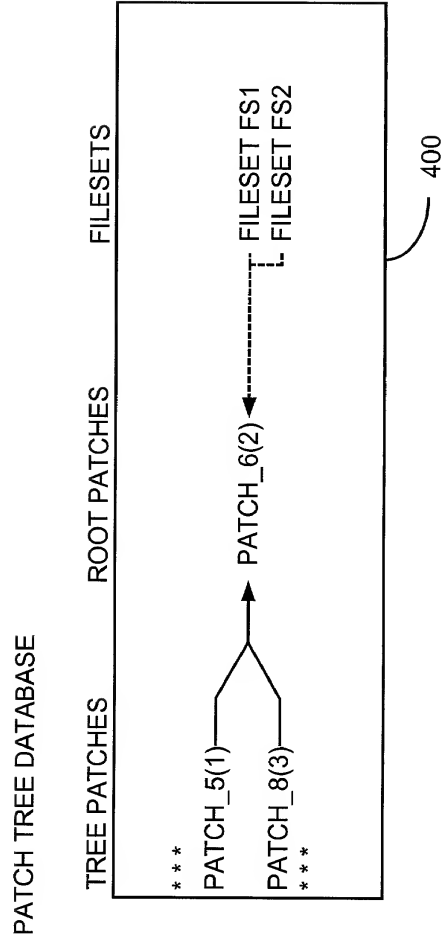


FIG. 5

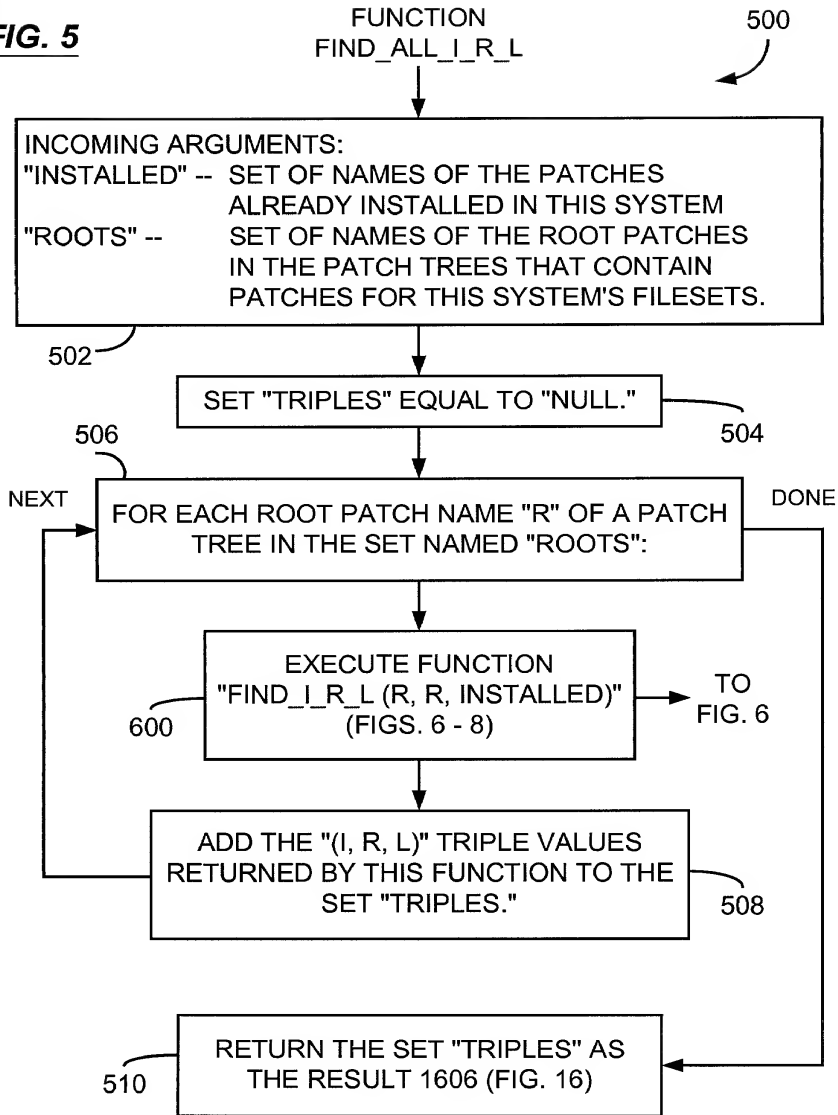


FIG. 6

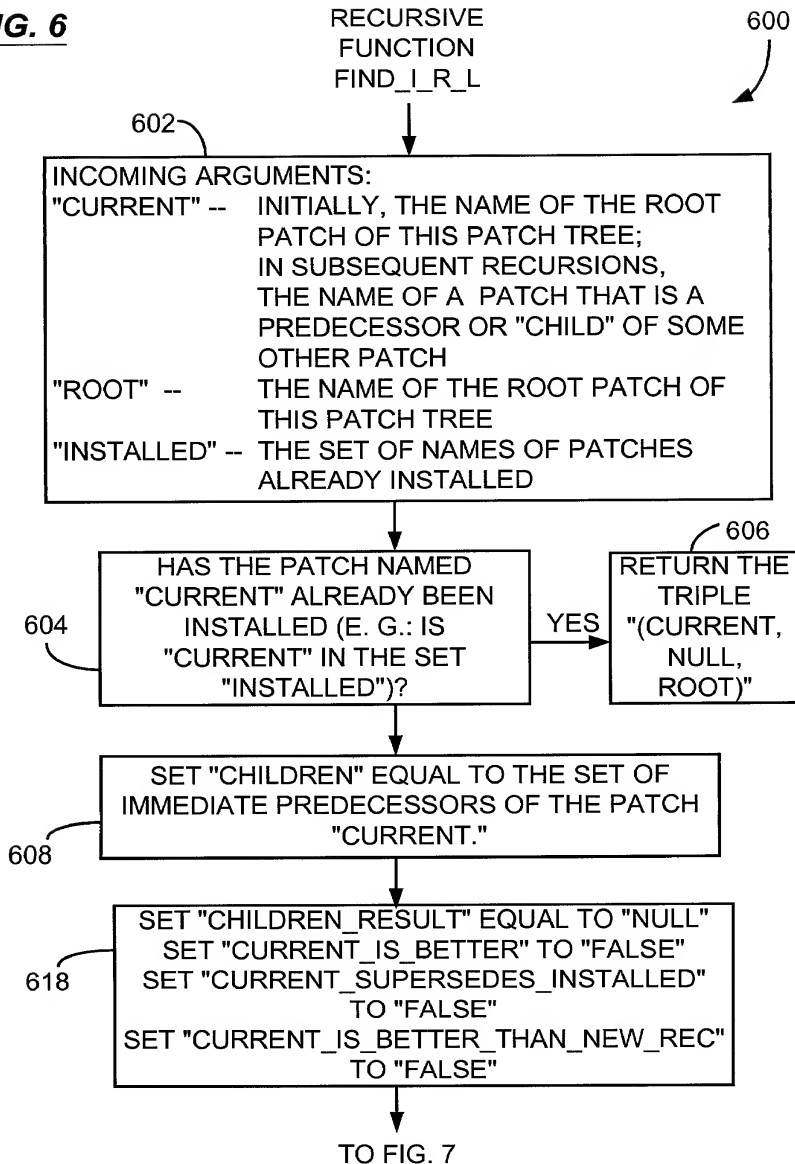


FIG. 7

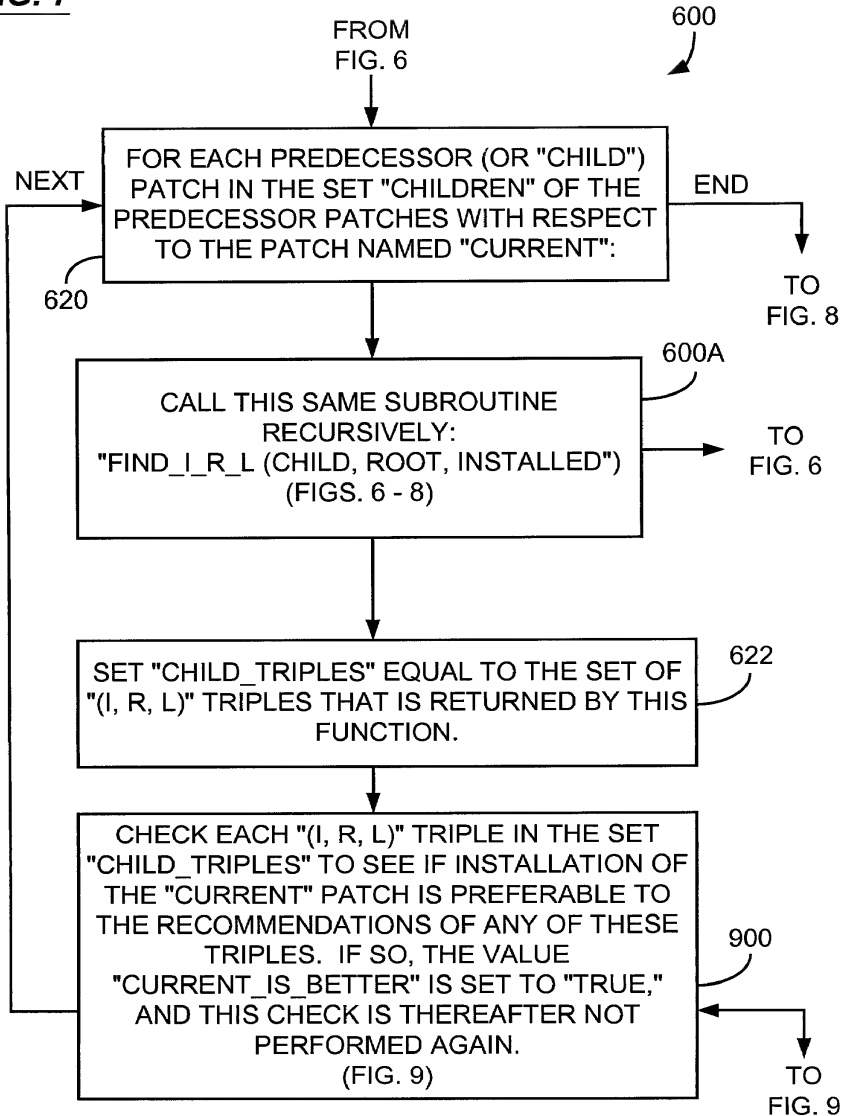


FIG. 8

FROM FIG. 7

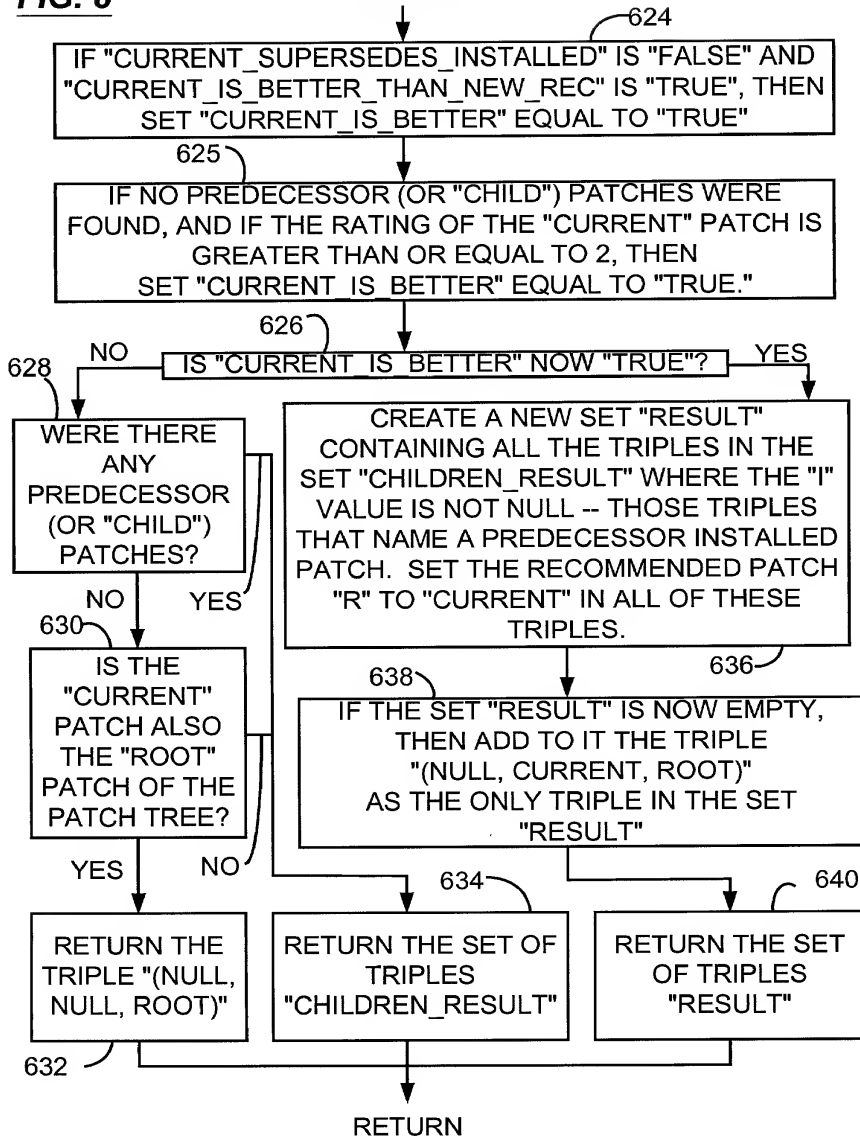


FIG. 9

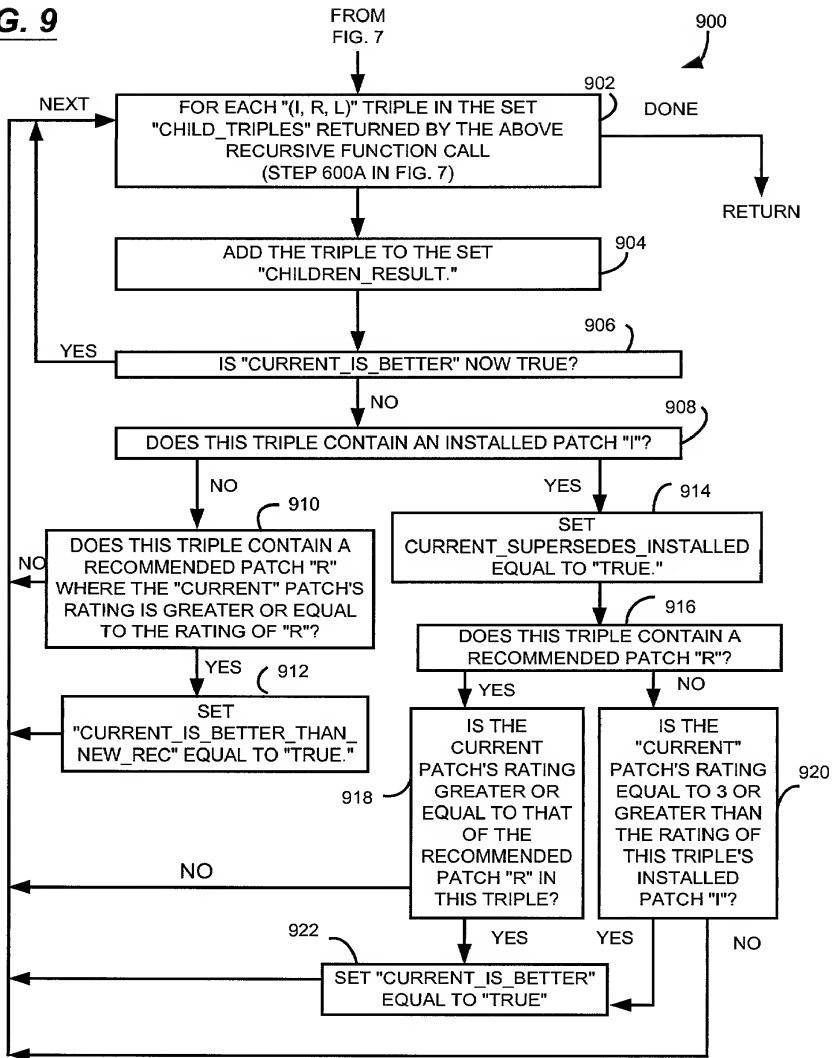


FIG. 10

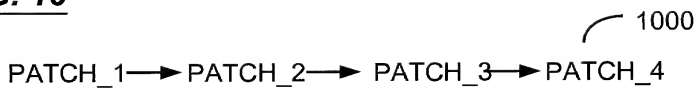


FIG. 11

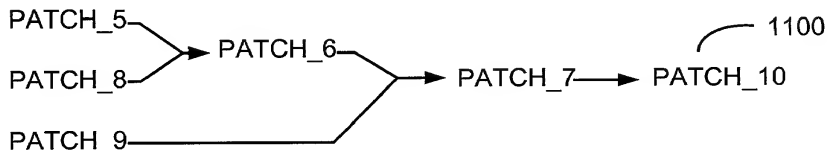


FIG. 12

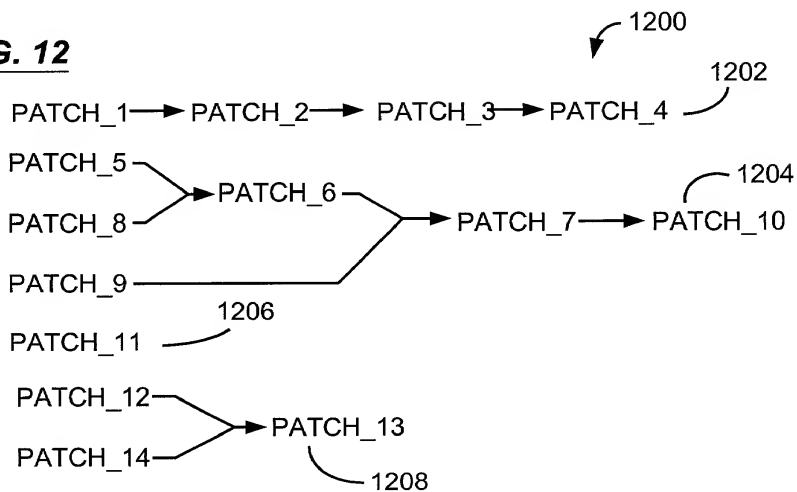


FIG. 13

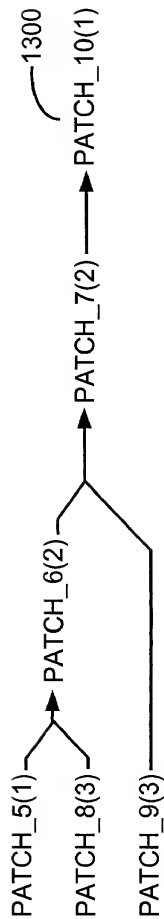


FIG. 14



FIG. 15

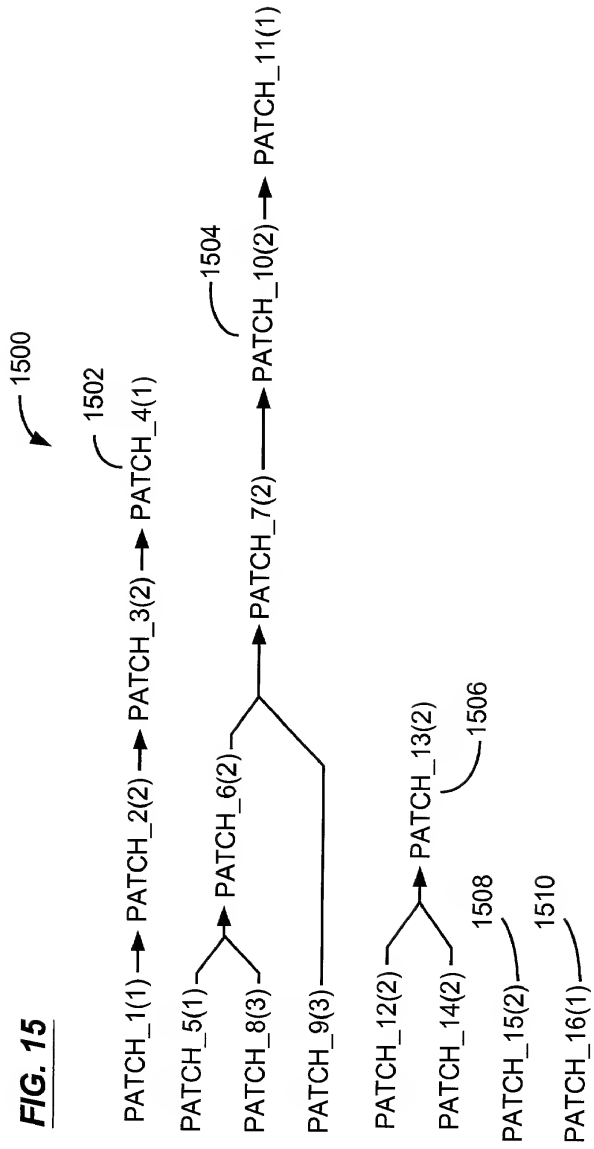


FIG. 16

$$\text{ROOTS} = \{ \text{PATCH}_4, \text{PATCH}_{11}, \text{PATCH}_{13}, \text{PATCH}_{15}, \text{PATCH}_{16} \}$$

```
INSTALLED = { PATCH_1, PATCH_5, PATCH_9, PATCH_14 } }
```

RESULT OF FUNCTION "FIND_ALL_I_R_L" EQUALS:

```

{
    (PATCH_1, PATCH_3, PATCH_4 ), 1608
    (PATCH_5, PATCH_10, PATCH_11), 1610
    (PATCH_9, PATCH_10, PATCH_11),
    (PATCH_14, NULL, PATCH_13), 1614
    (NULL, PATCH_15, PATCH_15),
    (NULL, NULL, PATCH_16) }
1618

```